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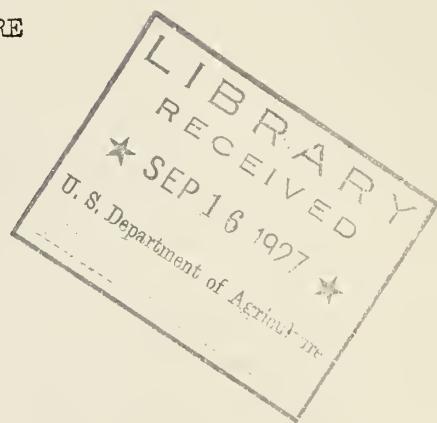
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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics.

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UNITED STATES STANDARDS
FOR
BROWN RICE

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September 1927.

STANDARDS FOR BROWN RICE

For the purposes of the United States standards for brown rice:

Brown rice. Brown rice shall be rice grown in continental United States from which the hulls only have been removed from not less than 90 per cent of the kernels, and which does not contain more than 10 per cent of cereal grains of a kind or kinds other than rice, seeds, or other foreign material, either singly or in any combination.

Note. Brown rice for the purposes of the standards is divided into classes and subclasses as follows: Class I, Honduras Brown Rice; Class II, Edith Brown Rice; Class III, Fortuna Brown Rice; Class IV, Carolina Brown Rice; Class V, Lady Wright Brown Rice; Class VI, Blue Rose Brown Rice; Class VII, Early Prolific Brown Rice; Class VIII, Japan Brown Rice, divided into subclasses (a) Japan Brown Rice and (b) California Japan Brown Rice; and Mixed Brown Rice.

HONDURAS BROWN RICE (CLASS I)

This class shall include the rices known commercially as Honduras and Mortgage Lifter, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

EDITH BROWN RICE (CLASS II)

This class shall include the rice known commercially as Edith, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

FORTUNA BROWN RICE (CLASS III)

This class shall include the rice known commercially as Fortuna, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

CAROLINA BROWN RICE (CLASS IV)

This class shall include the rices known commercially as Carolina and Storm Proof, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

LADY WRIGHT BROWN RICE (CLASS V)

This class shall include the rice known commercially as Lady Wright, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

Grade requirements for the classes Honduras, Edith, Fortuna, Carolina, and Lady Wright brown rice.

U. S. Grade	Cereal grains, seeds, mud-lumps and heat-damaged			Paddy grains			Red rice			Damage other than heat			Chalky kernels			Broken kernels			Other rices				
	Cereal grains			Number in 500 grams)			Mud lumps			Heat damaged			Mud lumps			No. 6½ sieve			Total			No. 6½ sieve	
No.	No.	No.	%	%	%	No.	No.	No.	%	%	%	No.	No.	No.	%	%	%	No.	No.	No.	%		
Extra	0	2	0	1	0.2	0.5	1	1.5	10	1	1	1	1	1	1	1	1	1	1	1	1		
Fancy	1	5	1	2	0.4	1.0	3	2.5	15	2	2	2	2	2	2	2	2	2	2	2	2		
Choice	5	10	5	5	1.0	3.0	5	5.0	20	3	3	3	3	3	3	3	3	3	3	3	3		

Sample Grade. Sample grade shall be brown rice of the class Honduras, Edith, Fortuna, Carolina, or Lady Wright, respectively, which does not come within the requirements for any of the grades from Extra Fancy to Choice, inclusive, or which has any commercially objectionable foreign odor, or is musty or sour, or is heating, or hot, or is of a badly damaged or badly stained appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, seeds, and mud lumps, or contains more than 14.5 per cent of moisture.

BLUE ROSE BROWN RICE (CLASS VI)

This class shall include the rices known commercially as Blue Rose, Greater Blue Rose, and Improved Blue Rose, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

EARLY PROLIFIC BROWN RICE (CLASS VII)

This class shall include the rice known commercially as Early Prolific, and may include not more than 10 per cent of whole kernels of rice of any other class or classes.

JAPAN BROWN RICE (CLASS VIII)

This class shall include the rices known commercially as Japan, and may include not more than 10 per cent of whole kernels of rice of any other class or classes. This class shall be divided into two subclasses designated as (a) Japan brown rice, and (b) California Japan brown rice.

Subclass (a) Japan Brown Rice

This subclass shall include all rices known commercially as Japan possessing the characteristics of rice of this class as grown east of the Rocky Mountains.

Grade requirements for the classes Blue Rose and Early Prolific brown rice and the subclass Japan brown rice.

Cereal grains, seeds, mud-lumps and heat-damaged kernels (Number in 500 grams)		Paddy grains		Damage		Broken kernels		Other rices	
Cereal grains	Seeds	Heat damaged	Mud lumps	Red rice	other than heat	Chalky kernels	Total	Through No. 6½ sieve	%
No.	No.	No.	No.	%	%	%	%	%	%
Extra Fancy	0	2	0	1	0.2	0.5	1	1.5	5
Fancy	1	5	1	2	0.4	1.0	3	2.5	10
Choice	5	10	5	5	1.0	3.0	5	5.0	15

Sample Grade. Sample grade shall be brown rice of the class Blue Rose or Early Prolific or the subclass Japan, respectively, which does not come within the requirements for any of the grades from Extra Fancy to Choice, inclusive, or which has any commercially objectionable foreign odor, or is musty or sour, or is heating, or hot, or is of a badly damaged or stained appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, seeds, and mud lumps, or contains more than 14.5 per cent of moisture.

Subclass (b) California Japan Brown Rice

This subclass shall include all rices known commercially as Japan possessing the characteristics of rice of this class as grown west of the Great Plains area of the United States.

Grade requirements for the subclass California Japan brown rice.

U. S. Grade	Cereal grains, seeds, mud-lumps and heat-damaged kernels (Number in 500 grams)			Paddy grains Mud lumps kernels	Red rice	Damage other than heat	Chalky kernels	Total	Through No. $6\frac{1}{2}$ sieve	Broken kernels	Other rices
	Cereal grains	Seeds	Heat damaged								
	No.	No.	No.		No.	%	%	%	%	%	%
Fancy	1	25	1	1	0.2	0.2	0.3	3	10	1	0.1
1	3	50	3	3	0.2	0.4	0.7	6	10	2	0.2
2	5	75	5	5	0.4	0.7	1.5	10	15	3	0.4

Sample Grade. Sample grade shall be brown rice of the subclass California Japan brown rice which does not come within the requirements for any of the grades from Fancy to No. 2, inclusive, or which has any commercially objectionable foreign odor, or is musty or sour, or is heating, or hot, or is of a badly damaged or badly stained appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, seeds, and mud lumps, or contains more than 15 per cent of moisture.

Grades for Mixed Brown Rice

Mixed brown rice.— Mixed brown rice shall be a mixture of any two or more of Classes I, II, III, IV, V, VI, VII, and VIII which does not meet the requirements of any one of such classes.

Mixed brown rice shall be graded according to each of the grade requirements common to the class or subclass of brown rice which predominates over each other class or subclass in the mixture, except that all of the grade requirements in any class as to the maximum percentages of other rices shall be disregarded. The grade designation of mixed brown rice shall include, successively, in the order named, the name of the grade or the number thereof, the word "mixed," and, in the order of its predominance, the name and approximate percentage of each class or subclass of brown rice which constitutes 10 per cent or more of the mixture, but if only one class or subclass exceeds 10 per cent of the mixture the name and approximate percentage of that class or subclass shall be added to the grade designation, followed by the name and approximate percentage of at least one other class or subclass.

Grades for Weevily Brown Rice

Weevily brown rice.— Weevily brown rice shall be all brown rice which is infected with live weevils or other insects injurious to stored rice.

Weevily brown rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not weevily, and there shall be added to and made a part of such grade designation the word "weevily."

Definitions

Basis of determination.— All determinations shall be upon the basis of the lot of rice as a whole.

Percentages.— Percentages, except in the case of moisture, shall be percentages ascertained by weight.

Percentage of moisture. — Percentage of moisture shall be that ascertained by the moisture tester and the method of use thereof described in Bulletin 1375, dated February, 1926, issued by the United States Department of Agriculture, Bureau of Agricultural Economics, except that the flame shall be extinguished when the thermometer registers 200° Centigrade, or ascertained by any device and method giving equivalent results.

No. 6 1/2 sieve.— A metal sieve perforated with round holes six and one-half sixty-fourths inch in diameter.

Damaged kernels.- Damaged kernels shall be kernels and pieces of kernels of brown rice which have been distinctly damaged by water, insects, or by any other means. Sound double and sound broken kernels shall not be considered damaged kernels.

Heat-damaged kernels.- Heat-damaged kernels shall be kernels and pieces of kernels of brown rice which have been distinctly discolored by external heat or as a result of heating caused by fermentation.

Cereal grains.- Cereal grains shall include barley, wheat, rye, emmer, spelt, einkorn, corn, grain sorghums, and oats, and shall not include buckwheat, flaxseed, and wild oats.

Seeds.- Seeds shall be grains, kernels, or seeds, either whole or broken, of any plant other than rice or cereal grains.

Red rice.- Red rice shall be kernels or pieces of kernels of brown rice which are distinctly red in color or have any appreciable amount of red bran theron.

Broken kernels.- Broken kernels shall be split kernels of brown rice and pieces of kernels which are less than three-fourths of the length of the perfect kernels.

Chalky kernels.- Chalky kernels shall be kernels and pieces of kernels of brown rice one-half or more of which is chalky.

Mud lumps.- Mud lumps shall be lumps of dried mud which will not pass through a No. 6 1/2 sieve. Mud lumps which will pass through a No. 6 1/2 sieve shall function in grading only as foreign material.

Paddy grains.- Paddy grains shall be kernels of rice from which the hulls have not been removed.